

FIG. 1

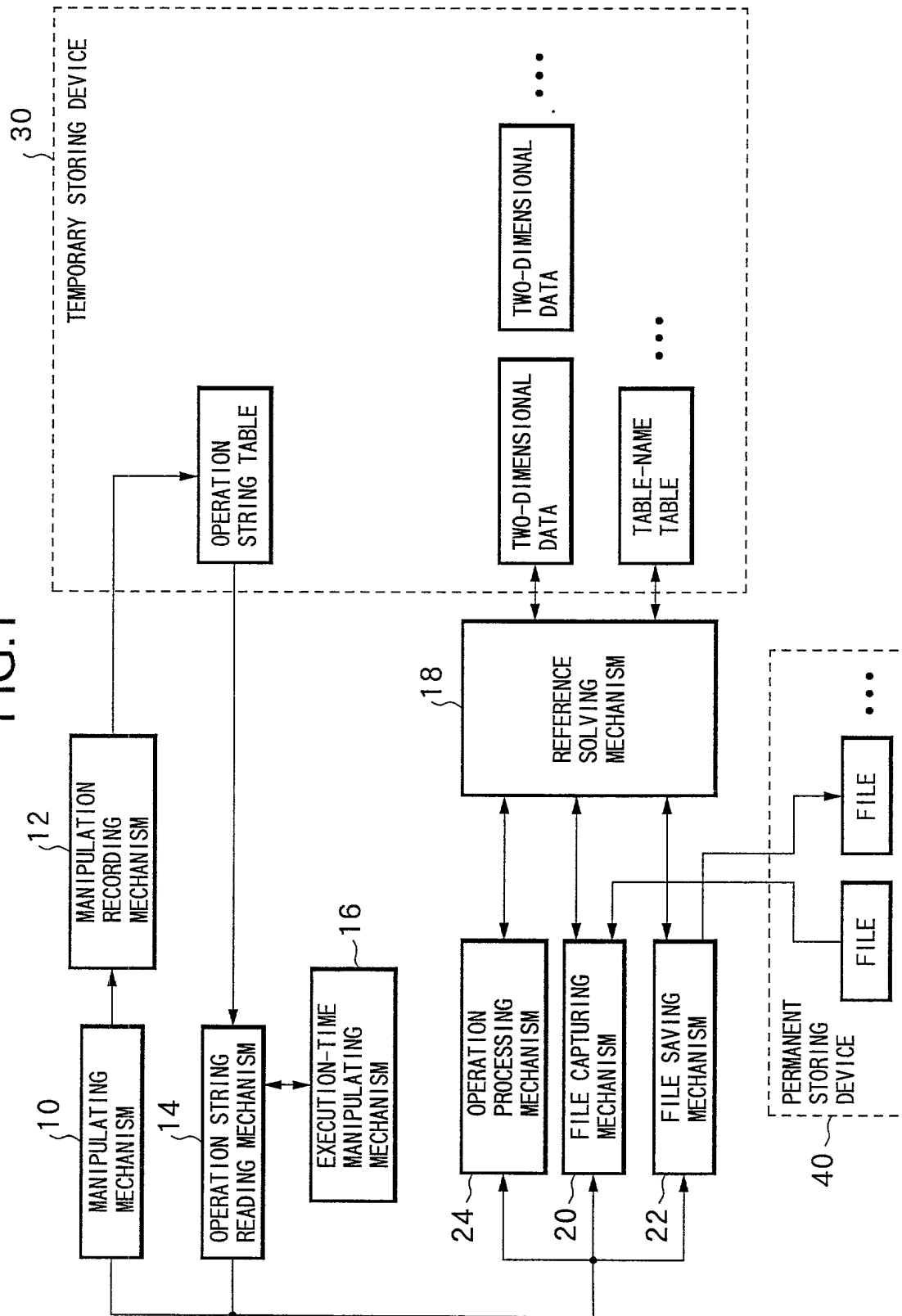


FIG.2

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FILE CAPTURING<br>FILE SAVING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SIMPLE HORIZONTAL COMBINATION<br>KEYED HORIZONTAL COMBINATION<br>SIMPLE VERTICAL COMBINATION<br>KEYED VERTICAL COMBINATION<br>SIMPLE DIFFERENCE<br>KEYED DIFFERENCE<br>SIMPLE TOTALIZATION<br>KEYED TOTALIZATION<br>NUMBER-DESIGNATED ROW EXTRACTION<br>VALUE-DESIGNATED ROW EXTRACTION<br>CONDITION-DESIGNATED ROW EXTRACTION<br>DATA-DESIGNATED ROW EXTRACTION<br>SIMPLE HORIZONTAL-VERTICAL EXCHANGE<br>COLUMN-TO-ROW CONVERSION<br>ROW-TO-COLUMN CONVERSION<br>CLASSIFICATION<br>SIMPLE VALUE FILLING<br>VACANT DATA-VALUE FILLING<br>SAME-VALUE DEGENERATION<br>SAME-VALUE EXPANSION<br>REPETITIVE DEGENERATION<br>REPETITIVE EXPANSION |
| EXECUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

FIG.3

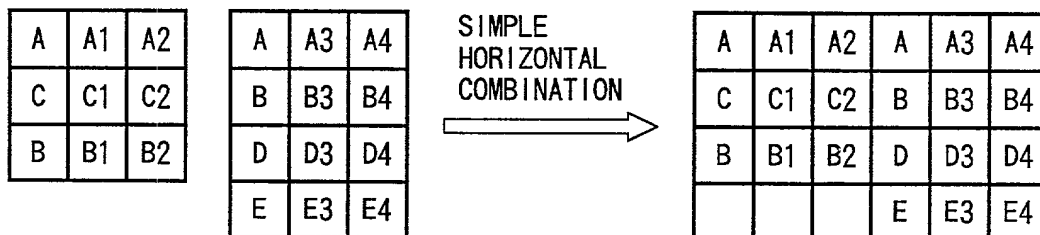


FIG.4

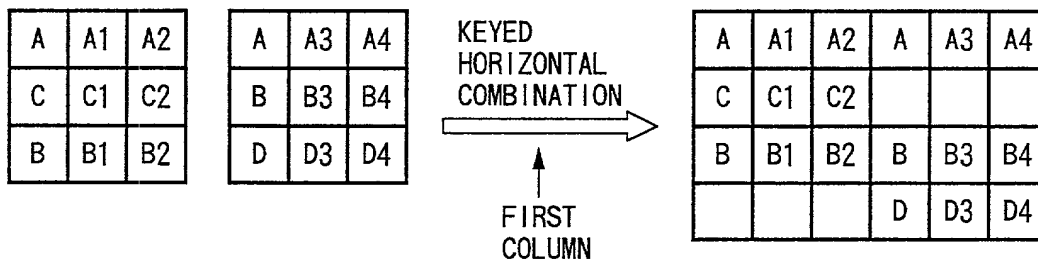


FIG.5

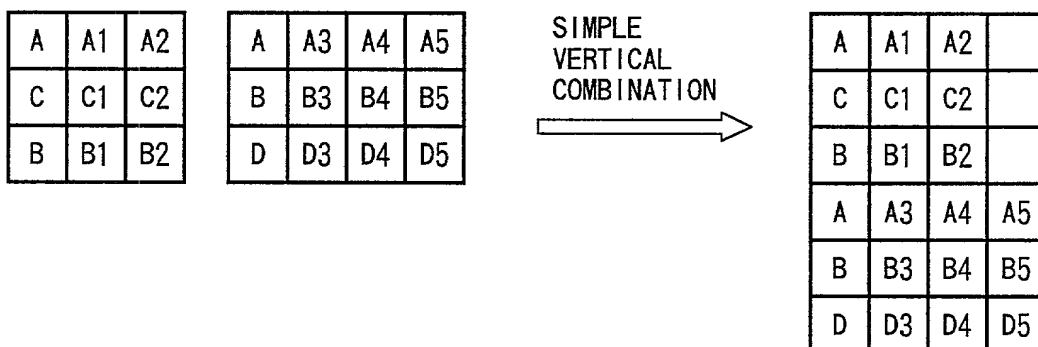


FIG.6

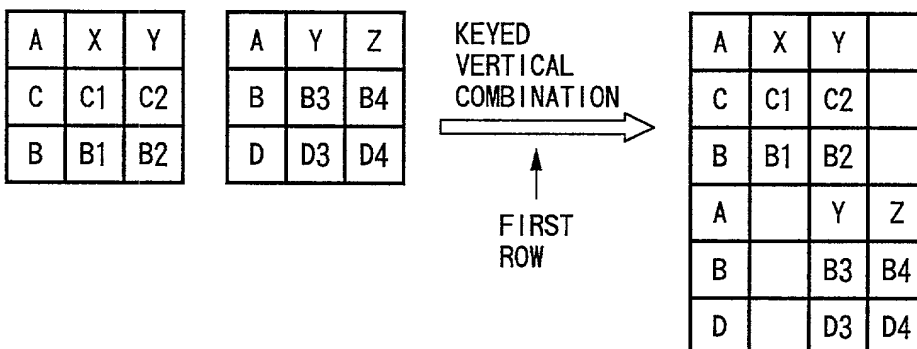


FIG.7

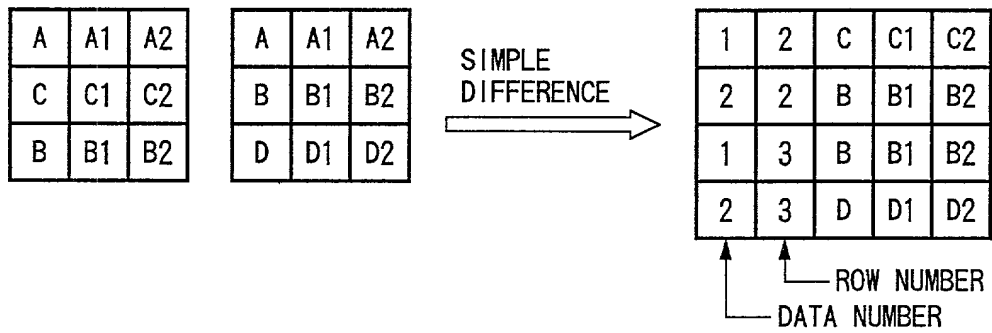


FIG.8

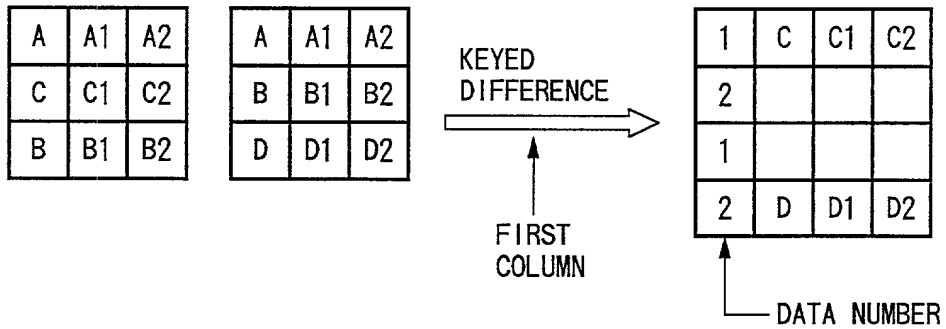


FIG.9

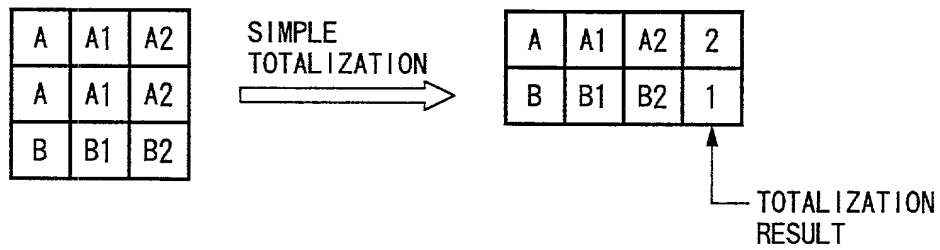


FIG.10

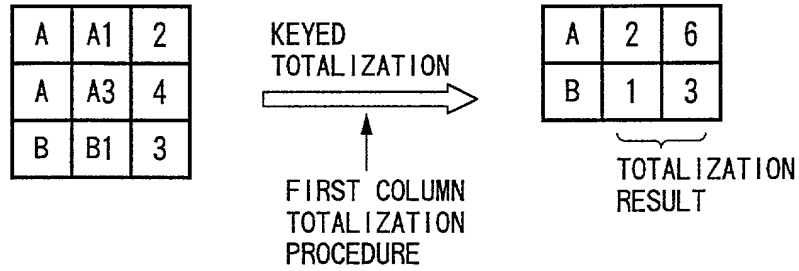


FIG.11

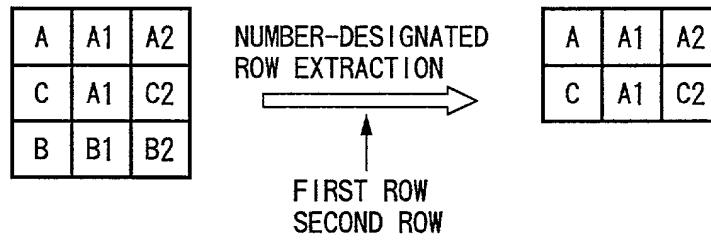


FIG.12

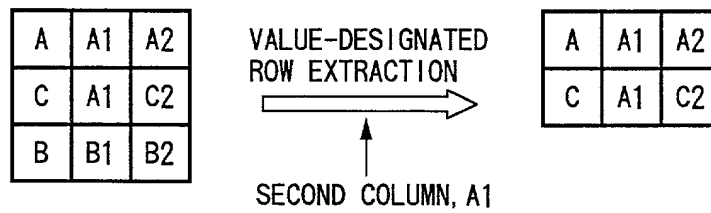


FIG.13

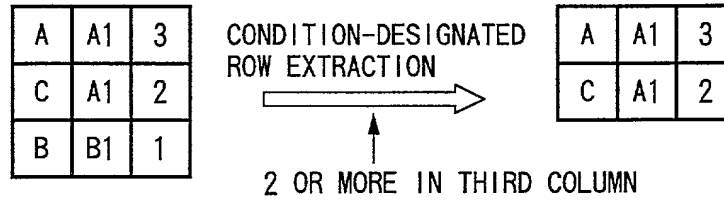


FIG.14

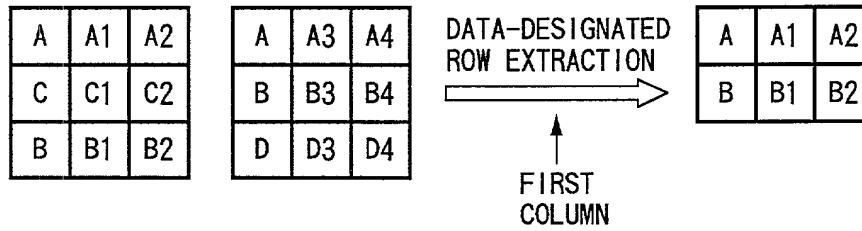


FIG.15

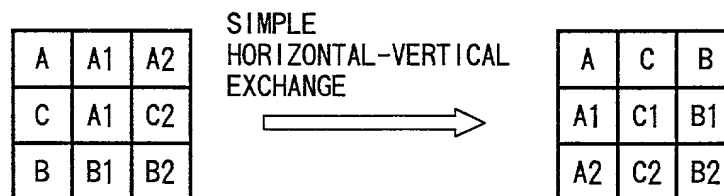


FIG.16

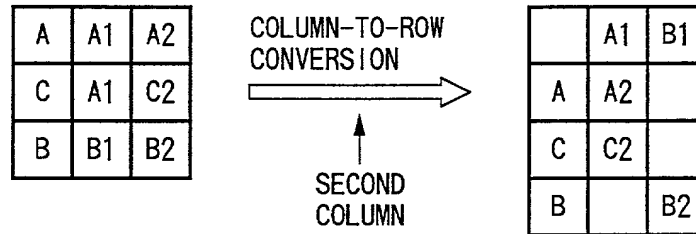


FIG.17

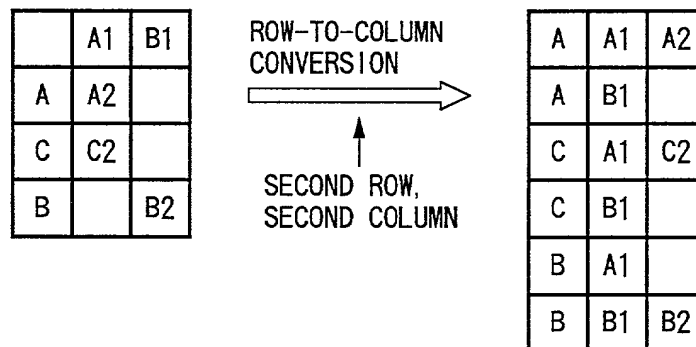


FIG.18

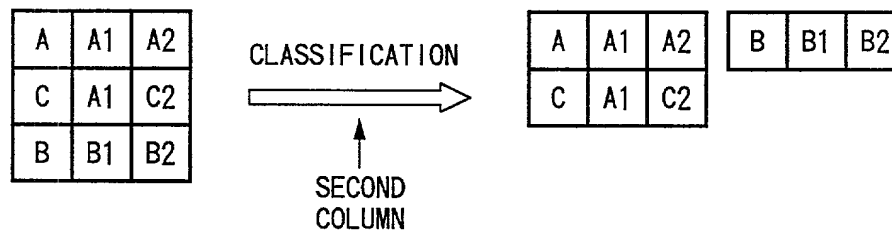


FIG.19

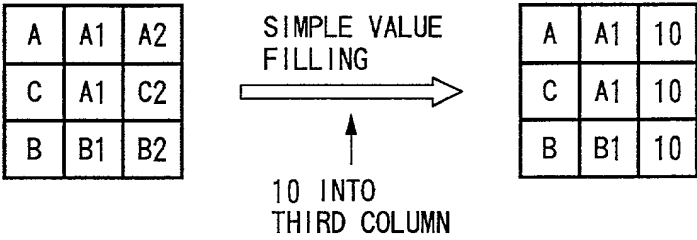


FIG.20

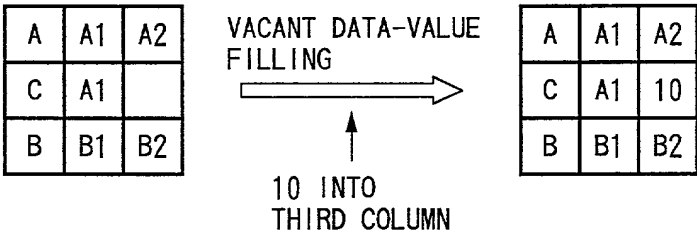


FIG.21

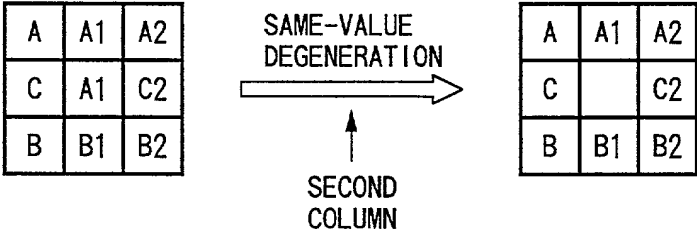




FIG.22

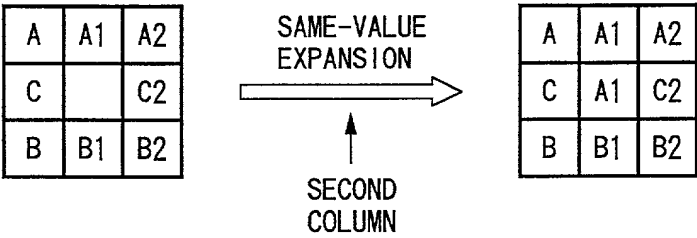


FIG.23

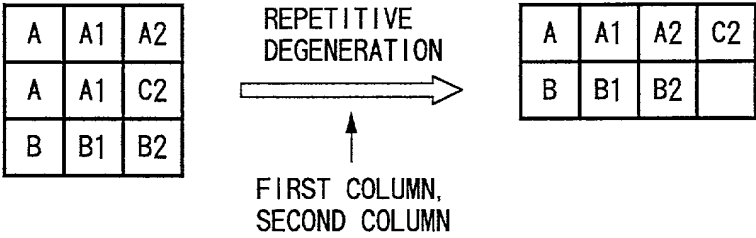


FIG.24

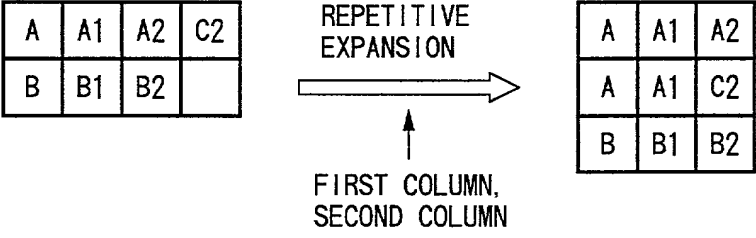




FIG.26

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DESIGNATION OF CONVERSION TARGET WORKSHEET

?

×

FILE CAPTURE

MAIN INPUT

XLSheet0

▼

SUB-INPUT

XLSheet0

▼

OUTPUT

XLSheet8

Sheet1

HISTORICAL LOG

▲

▼

☐
ADD INTO WORKSHEET

OK

CANCEL

FIG.27

54

| A       | B            | C       | D            | E              | F                            | G                        | H                                    | I                                            | J                       | K                       | L                | M                                     | N                  | O                  | P                                   | Q                                 | R                                                       | S                                            | T                                              | U            | V                | W                      | X                      | Y                     |
|---------|--------------|---------|--------------|----------------|------------------------------|--------------------------|--------------------------------------|----------------------------------------------|-------------------------|-------------------------|------------------|---------------------------------------|--------------------|--------------------|-------------------------------------|-----------------------------------|---------------------------------------------------------|----------------------------------------------|------------------------------------------------|--------------|------------------|------------------------|------------------------|-----------------------|
| 1       |              |         |              | TOP/IP SUMMARY | UNIX SYSTEM CALL PROGRAMMING | UNIX NETWORK PROGRAMMING | BASIS OF PROGRAM DEVELOPMENT ON UNIX | BASIS OF MULTITHREAD PROGRAMMING BY WIN32API | BASIS OF DATA STRUCTURE | BASIS OF DATA STRUCTURE | REVIEW TECHNIQUE | QUALITY CONTROL TECHNIQUE FOR LEADERS | PROJECT SIMULATION | PROJECT SIMULATION | DIRECTING AND EDUCATING SUBORDINATE | PROBLEM FINDING AND SOLVING SKILL | SUBJECT FINDING ABILITY IMPROVEMENT FOR IMPROVED PROFIT | REVIEW TEST TECHNIQUE IN PROGRAM DEVELOPMENT | PARTS REUSAGE TECHNIQUE IN PROGRAM DEVELOPMENT | SOL GUIDE    | BASIS OF NETWORK | DESIGN PRACTICE OF LAN | DESIGN PRACTICE OF WAN | BASIS OF UNIX NETWORK |
| 2       |              |         |              | TRAINING TYPE  | S.B.O                        | S.B.O                    | S.B.O                                | S.B.O                                        | S.B.O                   | S.B.O                   | S.B.O            | S.B.O                                 | S.B.O              | S.B.O              | S.B.O                               | S.B.O                             | S.B.O                                                   | S.B.O                                        | S.B.O                                          | S.B.O        | S.B.O            | S.B.O                  | S.B.O                  | S.B.O                 |
| 3       |              |         |              | HELD MONTH     | 2                            | 11                       | 11                                   | 12                                           | 10                      | 11                      | 3                | 12                                    | 12                 | 2                  | 3                                   |                                   | 1                                                       | 2                                            | 11,2                                           | FLM          | FLM              | FLM                    | FLM                    | FLM                   |
| 4       |              |         |              | HELD PLACE     | EACH PLACE                   | TECH                     | NUMAZU                               | NUMAZU                                       | TECH                    | NUMAZU                  | NUMAZU           | NUMAZU                                | CAMP               | CAMP               |                                     |                                   | TECH                                                    | OSAKA                                        | OSAKA                                          | OSAKA, TOKYO | TOKYO/OSAKA      | TOKYO/OSAKA            | TOKYO/OSAKA            | TOKYO/OSAKA           |
| 5       | SECTION      | PROJECT | EMPLOYEE NO. | NAME           |                              |                          |                                      |                                              |                         |                         |                  |                                       |                    |                    |                                     |                                   |                                                         |                                              |                                                |              |                  |                        |                        |                       |
| 6       | 1ST DEV. DEP | GS/SURE | 363220       | I. AKI         |                              | ◎                        |                                      | ○                                            |                         |                         | ●                |                                       |                    |                    |                                     |                                   |                                                         |                                              |                                                |              |                  |                        |                        |                       |
| 7       | 1ST DEV. DEP | GS/SURE | 363213       | J. ADACHI      |                              |                          |                                      |                                              |                         |                         |                  |                                       |                    |                    |                                     |                                   |                                                         |                                              |                                                |              |                  |                        |                        |                       |
| 8       | 1ST DEV. DEP | GS/SURE | 371704       | S. ARAI        |                              |                          |                                      |                                              |                         |                         |                  |                                       |                    |                    |                                     |                                   |                                                         |                                              |                                                |              |                  |                        |                        |                       |
| 9       | 1ST DEV. DEP | GS/SURE | 392272       | S. IKEDA       |                              |                          |                                      |                                              |                         |                         |                  |                                       |                    |                    |                                     |                                   |                                                         |                                              |                                                |              |                  |                        |                        |                       |
| 10      | 1ST DEV. DEP | GS/SURE | 392282       | G. ISHII       | ●                            |                          |                                      |                                              |                         |                         |                  |                                       |                    |                    |                                     | ○                                 |                                                         |                                              |                                                |              | ●                |                        |                        |                       |
| 11      | 1ST DEV. DEP | GS/SURE | 382072       | R. INOUE       | ●                            |                          |                                      |                                              |                         |                         |                  |                                       |                    |                    |                                     |                                   |                                                         |                                              |                                                |              |                  |                        |                        |                       |
| 12      | 1ST DEV. DEP | GS/SURE | 402634       | S. IWAKI       |                              |                          |                                      |                                              |                         |                         |                  |                                       |                    |                    |                                     |                                   |                                                         |                                              |                                                |              |                  |                        |                        |                       |
| 13      | 1ST DEV. DEP | GS/SURE | 363248       | H. UEDA        |                              |                          | ◎                                    |                                              |                         |                         |                  |                                       |                    |                    |                                     |                                   |                                                         |                                              |                                                |              |                  |                        |                        |                       |
| 14      | 1ST DEV. DEP | GS/SURE | 371724       | K. ENDO        |                              |                          |                                      |                                              |                         |                         |                  |                                       |                    |                    |                                     | ◎                                 |                                                         |                                              |                                                |              | ○                |                        |                        |                       |
| 15      | 1ST DEV. DEP | GS/SURE | 414406       | J. OMORI       |                              |                          |                                      |                                              |                         |                         |                  |                                       |                    |                    |                                     |                                   |                                                         |                                              |                                                |              |                  |                        |                        |                       |
| 16      | 1ST DEV. DEP | GS/SURE | 425929       | J. OCHI        |                              |                          |                                      |                                              |                         |                         |                  | OK                                    |                    |                    |                                     |                                   |                                                         |                                              |                                                |              |                  |                        |                        |                       |
| 17      | 1ST DEV. DEP | GS/SURE | 405545       | L. LOU         |                              |                          |                                      |                                              |                         |                         |                  |                                       |                    |                    |                                     |                                   |                                                         |                                              |                                                |              |                  |                        |                        |                       |
| Sheet01 |              |         |              |                |                              |                          |                                      |                                              |                         |                         |                  |                                       |                    |                    |                                     |                                   |                                                         |                                              |                                                |              |                  |                        |                        |                       |

FIG.28

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DESIGNATION OF CONVERSION TARGET WORKSHEET

ROW-TO-COLUMN CONVERSION

MAIN INPUT XLSheet0

SUB-INPUT XLSheet0

OUTPUT XLSheet1

XLSheet0

XLSheet1

☐ ADD INTO WORKSHEET

OK

CANCEL

FIG.29

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DESIGNATION OF CONVERTING CONDITION

ROW-TO-COLUMN CONVERSION

OK

CANCEL

|         |            |
|---------|------------|
| \$A:\$A |            |
| \$B:\$B |            |
| \$C:\$C |            |
| \$D:\$D |            |
| \$E:\$E | TCP/IP SUM |
| \$F:\$F | UNIX SYSTE |
| \$G:\$G | UNIX NETWO |
| \$H:\$H | BASIC OF P |

| SECTION       |
|---------------|
| 1ST DEV. DEP. |
| 1ST DEV. DEP. |
| 1ST DEV. DEP. |

FIG.30

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| A  | B            | C       | D      | E                                                                       | F       | G           | H              | I | J | K |
|----|--------------|---------|--------|-------------------------------------------------------------------------|---------|-------------|----------------|---|---|---|
| 1  | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI TCP/IP SUMMARY                                                  | S. B. O | 2           | EACH PLACE     |   |   |   |
| 2  | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI UNIX SYSTEM CALL PROGRAMMING                                    | S. B. O | 11          | TECH           |   |   |   |
| 3  | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI UNIX NETWORK PROGRAMMING                                        | S. B. O | 11          | TECH           |   | ◎ |   |
| 4  | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI BASIS OF PROGRAM DEVELOPMENT ON UNIX                            | S. B. O | 12          | NUMAZU         |   |   |   |
| 5  | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI BASIS OF MULTITHREAD PROGRAMMING BY WIN32API                    | S. B. O | 10          | NUMAZU         |   | ○ |   |
| 6  | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI BASIS OF DATA STRUCTURE                                         | S. B. O | 11          | TECH           |   |   |   |
| 7  | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI BASIS OF DATA STRUCTURE                                         | S. B. O | 3           | NUMAZU         |   |   |   |
| 8  | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI REVIEW TECHNIQUE                                                | S. B. O | 12          | CORRESPONDENCE |   |   |   |
| 9  | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI QUALITY CONTROL TECHNIQUE FOR LEADERS                           | S. B. O | 12          | NUMAZU         |   | ● |   |
| 10 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI PROJECT SIMULATION                                              | S. B. O | 2           | CAMP           |   |   |   |
| 11 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI PROJECT SIMULATION                                              | S. B. O | 3           | CAMP           |   |   |   |
| 12 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI DIRECTING AND EDUCATING SUBORDINATE                             | S. B. O |             |                |   |   |   |
| 13 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI PROBLEM FINDING AND SOLVING SKILL                               | S. B. O |             |                |   |   |   |
| 14 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI SUBJECT FINDING ABILITY IMPROVEMENT FOR IMPROVED PROFIT         | S. B. O | 1           | TECH           |   |   |   |
| 15 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI REVIEW TEST TECHNIQUE IN PROGRAM DEVELOPMENT                    | FLM     | 2           | OSAKA          |   |   |   |
| 16 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI PARTS REUSAGE TECHNIQUE IN PROGRAM DEVELOPMENT                  | FLM     | 11. 2       | OSAKA          |   |   |   |
| 17 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI SOL GUIDE                                                       | FLM     | EVERY MONTH | OSAKA, TOKYO   |   |   |   |
| 18 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI BASIS OF NETWORK                                                | FLM     | EVERY MONTH | TOKYO(OSAKA)   |   |   |   |
| 19 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI DESIGN PRACTICE OF LAN                                          | FLM     | EVERY MONTH | TOKYO(OSAKA)   |   |   |   |
| 20 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI DESIGN PRACTICE OF WAN                                          | FLM     | EVERY MONTH | TOKYO(OSAKA)   |   |   |   |
| 21 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI BASIS OF UNIX NETWORK                                           | FLM     | EVERY MONTH | TOKYO(OSAKA)   |   |   |   |
| 22 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI UNIX NETWORK PROGRAMMING                                        | FLM     | 11. 2       | TOKYO          |   |   |   |
| 23 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI BASIS OF WINDOWS NT                                             | FLM     | EVERY MONTH | TOKYO(OSAKA)   |   |   |   |
| 24 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI BASIS OF PROJECT MANAGEMENT                                     | FLM     | EVERY MONTH | TOKYO(OSAKA)   |   |   |   |
| 25 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI BASIS OF EVALUATION DEVELOPMENT PLAN AND MANAGEMENT FOR LEADERS | FLM     | 11. 1. 3    | TOKYO          |   |   |   |
| 26 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI SYSTEM QUALITY MANAGEMENT WORKSHOP                              | FLM     | 2           | TOKYO          |   |   |   |
| 27 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS                  | FLM     | 11. 2       | TOKYO          |   | ◎ |   |
| 28 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI ACTION TRAINING FOR LEADERS                                     | FLM     |             |                |   | ○ |   |
| 29 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI RISK MANAGEMENT WORKSHOP                                        | FLM     | 12. 1       | TOKYO          |   |   |   |
| 30 | 1ST DEV. DEP | GS/SURE | 363220 | I. AOKI DEBATING TECHNIQUE                                              | S. B. O | 2           | TECH           |   |   |   |

FIG.31

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DESIGNATION OF CONVERSION TARGET WORKSHEET

VALUE-DESIGNATED ROW EXTRACTION

MAIN INPUT XLSheet1 ▼

SUB-INPUT XLSheet1 ▼

OUTPUT XLSheet2

script ▲  
FillEmptyCells ▼

☐ ADD INTO WORKSHEET

OK

CANCEL

?

×

FIG.32

64

DESIGNATION OF CONVERTING CONDITION

VALUE-DESIGNATED ROW EXTRACTION

OK

CANCEL

|                    |                                     |
|--------------------|-------------------------------------|
| \$C:\$C 363220     | <input type="checkbox"/>            |
| \$D:\$D 1. AOKI    | <input type="checkbox"/>            |
| \$E:\$E TCP/IP SUM | <input type="checkbox"/>            |
| \$F:\$F S. B. 0    | <input type="checkbox"/>            |
| \$G:\$G 2          | <input type="checkbox"/>            |
| \$H:\$H EACH PLACE | <input type="checkbox"/>            |
| \$I:\$I            | <input type="checkbox"/>            |
| \$J:\$J            | <input checked="" type="checkbox"/> |



99

[illegible]

FIG.34

68

DESIGNATION OF CONVERSION TARGET WORKSHEET

KEYED TOTALIZATION

MAIN INPUT XLSheet2

SUB-INPUT XLSheet2

OUTPUT XLSheet3

script  
FillEmptyCells

☐ ADD INTO WORKSHEET

OK

CANCEL

FIG.35

70

DESIGNATION OF CONVERTING CONDITION

KEYED TOTALIZATION

OK

CANCEL

|         |             |
|---------|-------------|
| \$A:\$A | 1ST DEV. DE |
| \$B:\$B | GS/SUF      |
| \$C:\$C | 363220      |
| \$D:\$D | I. AOKI     |
| \$E:\$E | UNIX NETWO  |
| \$F:\$F | S. B. 0     |
| \$G:\$G | 11          |
| \$H:\$H | TECH        |

72

[illegible]



FIG.38

76

DESIGNATION OF CONVERSION TARGET WORKSHEET

EXECUTION

MAIN INPUT script

SUB-INPUT XLSheet

OUTPUT XLSheet4

script  
FillEmptyCells

☐ ADD INTO WORKSHEET

OK

CANCEL



87

| <b>FILE OPEN</b>                                    |                                              |                                     |                                                                   |
|-----------------------------------------------------|----------------------------------------------|-------------------------------------|-------------------------------------------------------------------|
| <b>RETRIEVE(I) :</b>                                | <input type="text" value="sample"/>          | <input type="button" value="Find"/> | <input type="button" value="X"/> <input type="button" value="?"/> |
|                                                     |                                              |                                     |                                                                   |
| NAME                                                | SIZE                                         | TYPE                                | MODIFIED                                                          |
| MINAGAWA. xls                                       | 18KB                                         | Microsoft Exce...                   | 00/03/07 23:02                                                    |
| SATO. xls                                           | 17KB                                         | Microsoft Exce...                   | 00/03/07 23:01                                                    |
| sample. xls                                         | 26KB                                         | Microsoft Exce...                   | 00/08/07 13:18                                                    |
| <b>FIND FILES THAT MATCH THESE SEARCH CONDITION</b> |                                              |                                     |                                                                   |
| <b>FILE NAME(N) :</b>                               | <input type="text"/>                         | <input type="button" value="v"/>    | <b>TEXT OR PROPERTY(X) :</b>                                      |
| <b>FILE OF TYPE(T) :</b>                            | <input type="text" value="ALL FILES (*.*)"/> | <input type="button" value="v"/>    | <b>LAST MODIFIED(M) :</b>                                         |
|                                                     |                                              | <input type="button" value="v"/>    | <input type="text" value="ANY TIME"/>                             |
| <b>3 FILE(s) FOUND</b>                              |                                              |                                     |                                                                   |

FIG. 41

[illegible]





FIG.43

80

|          | A                                            | B | C | D | E | F | G | H | I |  |
|----------|----------------------------------------------|---|---|---|---|---|---|---|---|--|
| 1        | C++GUIDE                                     | 1 |   |   |   |   |   |   |   |  |
| 2        | JAVA BEENS COMPONENT DEVELOPMENT             | 1 |   |   |   |   |   |   |   |  |
| 3        | WINDOWS APPLICATION DEVELOPMENT BY MFO       | 1 |   |   |   |   |   |   |   |  |
| 4        | TCP/IP SUMMARY                               | 2 |   |   |   |   |   |   |   |  |
| 5        | STATE TRANSITION DIAGRAM AND LANGUAGE THEORY | 1 |   |   |   |   |   |   |   |  |
| 6        | MIDDLE CLASS JAVA PROGRAMMING (LOD)          | 1 |   |   |   |   |   |   |   |  |
| 7        |                                              |   |   |   |   |   |   |   |   |  |
| 8        |                                              |   |   |   |   |   |   |   |   |  |
| 9        |                                              |   |   |   |   |   |   |   |   |  |
| 10       |                                              |   |   |   |   |   |   |   |   |  |
| 11       |                                              |   |   |   |   |   |   |   |   |  |
| 12       |                                              |   |   |   |   |   |   |   |   |  |
| 13       |                                              |   |   |   |   |   |   |   |   |  |
| 14       |                                              |   |   |   |   |   |   |   |   |  |
| 15       |                                              |   |   |   |   |   |   |   |   |  |
| 16       |                                              |   |   |   |   |   |   |   |   |  |
| 17       |                                              |   |   |   |   |   |   |   |   |  |
| 18       |                                              |   |   |   |   |   |   |   |   |  |
| 19       |                                              |   |   |   |   |   |   |   |   |  |
| 20       |                                              |   |   |   |   |   |   |   |   |  |
| 21       |                                              |   |   |   |   |   |   |   |   |  |
| 22       |                                              |   |   |   |   |   |   |   |   |  |
| 23       |                                              |   |   |   |   |   |   |   |   |  |
| 24       |                                              |   |   |   |   |   |   |   |   |  |
| 25       |                                              |   |   |   |   |   |   |   |   |  |
| 26       |                                              |   |   |   |   |   |   |   |   |  |
| 27       |                                              |   |   |   |   |   |   |   |   |  |
| 28       |                                              |   |   |   |   |   |   |   |   |  |
| XLSheet3 |                                              |   |   |   |   |   |   |   |   |  |

**FIG. 44**

[illegible]